

International Civil Aviation Organization

DGP/27-WP/13 15/6/19

WORKING PAPER

DANGEROUS GOODS PANEL (DGP)

TWENTY-SEVENTH MEETING

Montréal, 16 to 20 September 2019

Agenda Item 1: Harmonizing ICAO dangerous goods provisions with UN Recommendations on the Transport of Dangerous Goods

1.2: Develop proposals, if necessary, for amendments to the *Technical Instructions for the Safe Transport of Dangerous Goods by Air*(Doc 9284) for incorporation in the 2021-2022 Edition

DRAFT AMENDMENTS TO THE TECHNICAL INSTRUCTIONS TO ALIGN WITH THE UN RECOMMENDATIONS — PART 3

(Presented by the Secretary)

SUMMARY

This working paper contains draft amendments to Part 3 of the Technical Instructions to reflect the decisions taken by the UN Committee of Experts on the Transport of Dangerous Goods and on the Globally Harmonized System of Classification and Labelling of Chemicals at its ninth session (Geneva, 7 December 2018).

The DGP is invited to agree to the draft amendments in this working paper.

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Part 3

DANGEROUS GOODS LIST, SPECIAL PROVISIONS AND LIMITED AND EXCEPTED QUANTITIES

Chapter 2

ARRANGEMENT OF THE DANGEROUS GOODS LIST (TABLE 3-1)

Table 3-1. Dangerous Goods List

									Passenger airci		Cargo aire	craft only
Name	UN No.	Class or divi- sion	Sub- sidiary hazard	Labels	State varia- tions	Special provi- sions	UN packing group	Excepted quantity	Packing instruction	Max. net quantity per package	Packing instruction	Max. net quantity per package
1	2	3	4	5	6	7	8	9	10	11	12	13
	UN M	odel Re	egulation	ns, Chap	ter 3.2, c	langerous	goods lis	st (see ST/s	SG/AC.10/4	46/Add.1):		
Detonators, electronic programmable for blasting†	<u>0511</u>	<u>1.1B</u>		Explos ive				<u>E0</u>	<u>FORBI</u>	<u>DDEN</u>	<u>FORBI</u>	<u>DDEN</u>
Detonators, electronic programmable for blasting†	<u>0512</u>	<u>1.4B</u>		Explos ive 1.4				<u>E0</u>	<u>FORBI</u>	<u>DDEN</u>	<u>131</u>	<u>75 kg</u>
UN	N Mode	l Regul	ations, C	Chapter 3	3.2, dang	erous goo	ods list, S	P347 (see	ST/SG/AC.	10/46/Ad	d.1):	
Detonators, electronic programmable for blasting†	<u>0513</u>	<u>1.4S</u>		Explos ive 1.4		<u>A165</u>		<u>E0</u>	<u>131</u>	<u>25 kg</u>	<u>131</u>	<u>100 kg</u>
UN	N Mode	l Regul	ations, C	Chapter 3	8.2, dang	erous goo	ods list, S	P393 (see	ST/SG/AC.	10/46/Add	d.1):	
Nitrocellulose , dry or wetted with less than 25% water (or alcohol), by mass	0340	1.1D				<u>A216</u>			FORBI	DDEN	FORBI	DDEN

DGP/27-WP/13

									Passenger		0	
Name	UN No.	Class or divi- sion	Sub- sidiary hazard	Labels	State varia- tions	Special provi- sions	UN packing group	Excepted quantity	airc Packing instruction	Max. net quantity per package	Cargo ain Packing instruction	Max. ne quantity per package
1	2	3	4	5	6	7	8	9	10	11	12	13
UN	N Mode	l Regul	ations, C	Chapter 3	8.2, dang	gerous goo	ods list, S	P393 (see	ST/SG/AC	.10/46/Ad	d.1):	
Nitrocellulose, unmodified or plasticized with less than 18% plasticizing substance, by mass	0341	1.1D				<u>A216</u>			FORBI	DDEN	FORBI	DDEN
UN	N Mode	l Regul	ations, C	Chapter 3	8.2, dang	erous goo	ods list, S	P393 (see	ST/SG/AC	.10/46/Ade	d.1):	
Nitrocellulose, plasticized with not less than 18% plasticizing substance, by mass	0343	1.3C				<u>A216</u>			FORBI	DDEN	FORBI	DDEN
UN	J Mode	l Regul	ations, C	Chapter 3	8.2, dang	gerous goo	ods list, S	P393 (see	ST/SG/AC	.10/46/Ade	d.1):	
Nitrocellulose, wetted with not less than 25% alcohol, by mass	0342	1.3C				<u>A216</u>			FORBI	DDEN	FORBI	DDEN
UN Model Regul of the DGP-WG/			r 3.2, da	ngerous	goods li	st, UN 20)37 (see S	T/SG/AC.	10/46/Add.	1) and par	agraph 3.1.	2.5.1 d)
Gas cartridges, (flammable) without a release device, non- refillable	2037	2.1		Gas flammabl e		<u>A145</u> A167		<u>E0</u>	<u>203</u> <u>Y203</u>	<u>1 kg</u> <u>1 kg</u>	<u>203</u>	<u>15 kg</u>
Gas cartridges, (non-flammable) without a release device, non-refillable	2037	2.2		Gas non- flammabl e		A98 <u>A145</u> A167		<u>E0</u>	<u>203</u> Y203	<u>1 kg</u> <u>1 kg</u>	<u>203</u>	<u>15 kg</u>
Gas cartridges (oxidizing) without a release device, non- refillable	2037	2.2	5.1	Gas non- flammabl e & Oxidizer		<u>A145</u> A167		<u>E0</u>	<u>203</u>	<u>1 kg</u>	<u>203</u>	<u>15 kg</u>
Gas cartridges (toxic & corrosive) without a release device, non- refillable	2037	2.3	8		AU 1 CA 7 IR 3 NL 1 US 3	A2			FORBI	DDEN	FORBI	DDEN
Gas cartridges (toxic, flammable & corrosive) without a release device, non- refillable	2037	2.3	2.1 8		AU 1 CA 7 IR 3 NL 1 US 3	A2			FORBI	DDEN	FORBI	DDEN

	1								Doooongor	and cargo		
									Passenger airc		Cargo aire	craft only
		Class							and	Max. net	cargo an	Max. net
		or	Sub-		State	Special	UN			quantity		quantity
Name	UN No.	divi- sion	sidiary hazard	Labels	varia-	provi-	packing	Excepted	Packing instruction	per	Packing	per
1	2	3	11a2a10 4	Labels 5	tions 6	sions 7	group 8	quantity 9	10	package 11	instruction 12	package 13
Gas cartridges (toxic	2037	2.3	2.1		AU 1	A2		Ŭ	FORBI	DDEN	FORBI	DDEN
& flammable) without					CA 7 IR 3							
a release device, non-refillable					NL 1							
non-remiable					US 3							
Gas cartridges	2037	2.3	5.1		AU 1	A2			FORBI	DDEN	FORBI	DDEN
(toxic, oxidizing &			8		CA 7 IR 3	A211						
corrosive) without a release device, non-					NL 1							
refillable					US 3							
Gas cartridges (toxic	2037	2.3	5.1		AU 1 CA 7	A2			FORBI	DDEN	FORBI	DDEN
& oxidizing) without a release device, non-					IR 3							
refillable					NL 1							
					US 3							
Gas cartridges	2037	2.3			AU 1	A2			FORBI	DDEN	FORBI	DDEN
(toxic) without a					CA 7 IR 3							
release device, non- refillable					NL 1							
					US 3							
Receptacles, small,	2037	2.1		Gas		<u>A145</u>		<u>E0</u>	<u>203</u>	<u>1 kg</u>	<u>203</u>	<u>15 kg</u>
containing gas				flammabl e		A167			<u>Y203</u>	<u>1 kg</u>		
(flammable) without a release device, non-												
refillable												
Receptacles, small,	2037	2.2		Gas non- flammabl		A98		<u>E0</u>	<u>203</u> Y203	<u>1 kg</u> 1 kg	<u>203</u>	<u>15 kg</u>
containing gas (non- flammable) without a				e		<u>A145</u> A167			1203	<u>1 Ky</u>		
release device, non-						///0/						
refillable												
Receptacles, small,	2037	2.2	5.1	Gas non-		<u>A145</u>		<u>E0</u>	<u>203</u>	1 kg	<u>203</u>	<u>15 kg</u>
containing gas	2037	2.2	5.1	flammabl e &		A167			200	TR	200	TO Ng
(oxidizing) without a				Oxidizer								
release device, non- refillable												
Telliable												
Receptacles, small,	2037	2.3	8		AU 1	A2			FORBI	DDEN	FORBI	DDEN
containing gas (toxic					CA 7 IR 3							
& corrosive) without a release device, non-					NL 1							
refillable					US 3							
											5 0	
Receptacles, small, containing gas	2037	2.3	2.1 8		AU 1 CA 7	A2			FORBI	DDEN	FORBI	DDEN
(toxic, flammable &			0		IR 3							
corrosive) without a					NL 1 US 3							
release device, non- refillable												
Receptacles, small,	2037	2.3	2.1		AU 1	A2			FORBI	DDEN	FORBI	DDEN
containing gas (toxic					CA 7 IR 3							
& flammable) without a release device,					NL 1							
non-refillable					US 3							

DGP/27-WP/13

									Passenger airci		Cargo aire	craft only
Name 1	UN No. 2	Class or divi- sion 3	Sub- sidiary hazard 4	Labels 5	State varia- tions 6	Special provi- sions 7	UN packing group 8	Excepted quantity 9	Packing instruction 10	Max. net quantity per package 11	Packing instruction 12	Max. ne quantity per package 13
Receptacles, small, containing gas (toxic, oxidizing & corrosive) without a release device, non- refillable	2037	2.3	5.1 8		AU 1 CA 7 IR 3 NL 1 US 3	A2 A211			FORBI	DDEN	FORBI	DDEN
Receptacles, small, containing gas (toxic & oxidizing) without a release device, non- refillable	2037	2.3	5.1		AU 1 CA 7 IR 3 NL 1 US 3	A2			FORBI	DDEN	FORBI	DDEN
Receptacles, small, containing gas (toxic) without a release device, non- refillable	2037	2.3			AU 1 CA 7 IR 3 NL 1 US 3	A2			FORBI	DDEN	FORBI	DDEN
DGP-WG/19-WP	/20 (Re	vised)	(see para	agraph 3.	1.2.10 o	f the DG	P-WG/19	report):				
Fish meal, stabilized	2216	9		<u>Miscella</u> <u>neous</u>	AU 1 I R 3 NL 3 US 3	A 2 A219	<u>III</u>	<u>E1</u>	FORBI <u>956</u>	DDEN <u>100 kg</u>	FORBID <u>956</u>	DEN <u>200 kg</u>
UN	J Mode	l Regul	ations, C	Chapter 3	.2, dang	erous goo	ods list, S	P386 (see	ST/SG/AC	10/46/Ad	d.1):	
Dipropylamine	2383	3	8	Liquid flamm able & Corros ive		A209	II	E2	352 Y340	1 L 0.5 L	363	5 L
UN	[Mode]	l Regul	ations, C	Chapter 3	.2, dang	erous goo	ods list, S	P386 (see	ST/SG/AC	10/46/Ad	d.1):	
UN 2- Dimethylaminoethyl methacrylate <u>,</u> stabilized	V Mode 2522	l Regul 6.1	ations, C	Chapter 3 Toxic	.2, dang	erous goo	ods list, S	P386 (see	654 Y641	10/46/Add 5 L 1 L	d.1): 662	60 L
2- Dimethylaminoethyl methacrylate <u>,</u> stabilized	2522	6.1		Toxic		<u>A209</u>	II	E4	654	5 L 1 L	662	60 L

									Passenger airci		Cargo aire	craft only
Name	UN No.	Class or divi- sion	Sub- sidiary hazard	Labels	State varia- tions	Special provi- sions	UN packing group	Excepted quantity	Packing instruction	Max. net quantity per package	Packing instruction	Max. net quantity per package
1	2	3	4	5	6	7	8 8	9	10	11	12	13
UN	Mode	l Regul	ations, C	Chapter 3	3.2, dang	erous goo	ods list, S	P394 (see	ST/SG/AC.	.10/46/Ad	d.1):	
Nitrocellulose with alcohol, not less than 25% alcohol, by mass, and not more than 12.6% nitrogen, by dry mass	2556	4.1		Solid flamm able	BE 3	A57 <u>A217</u>	11	E0	452	1 kg	453	15 kg
UN	Mode	l Regul	ations, C	Chapter 3	3.2, dang	erous goo	ods list, S	P394 (see	ST/SG/AC	.10/46/Ad	d.1):	
Nitrocellulose, with not more than 12.6% nitrogen, by dry mass, mixture without plasticizer, without pigment	2557	4.1		Solid flamm able	BE 3	A57 A86 <u>A217</u>	II	E0	452	1 kg	453	15 kg
UN	Mode	l Regul	ations, C	Chapter 3	3.2, dang	erous goo	ods list, S	P394 (see	ST/SG/AC	.10/46/Ad	d.1):	
Nitrocellulose, with not more than 12.6% nitrogen, by dry mass, mixture without plasticizer, with pigment	2557	4.1		Solid flamm able	BE 3	A57 A86 <u>A217</u>	11	E0	452	1 kg	453	15 kg
UN	Mode	l Regul	ations, C	Chapter 3	3.2, dang	erous goo	ods list, S	P394 (see	ST/SG/AC	.10/46/Ad	d.1):	
Nitrocellulose, with not more than 12.6% nitrogen, by dry mass, mixture with plasticizer, without pigment	2557	4.1		Solid flamm able	BE 3	A57 A86 <u>A217</u>	II	E0	452	1 kg	453	15 kg
UN	Mode	l Regul	ations, C	Chapter 3	3.2, dang	erous goo	ods list, S	P394 (see	ST/SG/AC	.10/46/Ad	d.1):	
Nitrocellulose, with not more than 12.6% nitrogen, by dry mass, mixture with plasticizer, with pigment	2557	4.1		Solid flamm able	BE 3	A57 A86 <u>A217</u>		E0	452	1 kg	453	15 kg

DGP/27-WP/13

									Passenger airc		Cargo aire	craft only
Name	UN No.	Class or divi- sion	Sub- sidiary hazard	Labels	State varia- tions	Special provi- sions	UN packing group	Excepted quantity	Packing instruction	Max. net quantity per package	Packing instruction	Max. net quantity per package
1	2	3	4	5	6	7	8	9	10	11	12	13
UN	Mode	l Regul	ations, C	Chapter 3	3.2, dang	erous goo	ods list, S	P274 (see	ST/SG/AC	.10/46/Ad	d.1):	
Environmentally hazardous substance, solid, n.o.s.*	3077	9		Miscell aneou s	DE 5 US 4	A97 A158 A179 A197 <u>A215</u>	III	E1	956 Y956	400 kg 30 kg G	956	400 kg
UN	Mode	l Regul	ations, C	Chapter 3	3.2, dang	erous goo	ods list, S	P274 (see	ST/SG/AC	.10/46/Ad	d.1):	
Environmentally hazardous substance, liquid, n.o.s.*	3082	9		Miscell aneou s	DE 5 US 4	A97 A158 A197 <u>A215</u>	III	E1	964 Y964	450 L 30 kg G	964	450 L
	UN M	odel Re	egulation	ns, Chap	ter 3.2, c	langerous	goods lis	st (see ST/	SG/AC.10/4	46/Add.1):	:	
Biomedical waste, n.o.s.	3291	6.2		Infecti ous		A117	#	E0	<u>622621</u>	No limit	622<u>621</u>	No limit
Clinical waste, unspecified, n.o.s.	3291	6.2		Infecti ous		A117	#	E0	622<u>621</u>	No limit	622<u>621</u>	No limit
	UN M	lodel Re	egulation	ns, Chap	ter 3.2, c	langerous	goods lis	st (see ST/	SG/AC.10/4	46/Add.1):	:	
Medical waste, n.o.s.	3291	6.2		Infecti ous		A117	#	E0	622<u>621</u>	No limit	622<u>621</u>	No limit
	UN M	odel Re	egulation	ns, Chap	ter 3.2, c	langerous	goods lis	st (see ST/	SG/AC.10/4	46/Add.1)		
Regulated medical waste, n.o.s.	3291	6.2		Infecti ous		A117	H	E0	622<u>621</u>	No limit	622<u>621</u>	No limit
	UN M	odel Re	egulation	ns, Chap	ter 3.2, c	langerous	goods lis	st (see ST/	SG/AC.10/4	46/Add.1):	:	
Dangerous goods in articles	<u>3363</u>	<u>9</u>		Miscell aneou <u>s</u>		<u>A48</u> <u>A107</u>		<u>E0</u>	see	962	see	962

- 7 -

									Passenger airc		Cargo aire	craft only
Name	UN No.	Class or divi- sion	Sub- sidiary hazard	Labels	State varia- tions	Special provi- sions	UN packing group	Excepted quantity	Packing instruction	Max. net quantity per package	Packing instruction	Max. ne quantity per package
1	2	3	4	5	6	7	8	9	10	11	12	13
UN	N Mode	l Regul	ations, C	Chapter 3	8.2, dang	erous goo	ods list, S	P394 (see	ST/SG/AC	.10/46/Ad	d.1):	
Desensitized explosive, solid, n.o.s.*	3380	4.1			BE 3	A133 <u>A217</u>	I		FORBI	DDEN	FORBI	DDEN
UN Model Regul the DGP-WG/19 Engine, internal		Chapter	r 3.2, dai	Gas	goods lis	A70	(see ST/S	SG/AC.10/	46/Add.1)	and paragr	220 220	.1 c) of No limi
combustion, flammable gas powered				flamm able		A87 A208						
UN Model Regul	ations	Chapter	r 3.2. dai	igerous	poods lis	st SP356	(see ST/S	5G/AC 10/	46/Add 1)	and paragr	aph 3 1 2 5	1 c) of
UN Model Regul the DGP-WG/19		Chapter	r 3.2, dai	igerous į	goods lis	st, SP356	(see ST/S	5G/AC.10/	46/Add.1)	and paragr	aph 3.1.2.5	.1 c) of
		Chapter	r 3.2, dai	Gas flamm able	goods lis	A70 A87 A208	(see ST/S	E0	46/Add.1)	and paragr	aph 3.1.2.5	.1 c) of
the DGP-WG/19 Machinery, internal combustion, flammable gas	3529 ations,	2.1		Gas flamm able		A70 A87 A208		EO	FORBI	DDEN	220	No limi
the DGP-WG/19 Machinery, internal combustion, flammable gas powered UN Model Regul	3529 ations,	2.1		Gas flamm able		A70 A87 A208		EO	FORBI	DDEN	220	No lim

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Chapter 3

SPECIAL PROVISIONS

Table 3-2. Special provisions

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A78 (≈172) Where a radioactive material has a subsidiary hazard(s):

- a) The substance must be allocated to Packing Group I, II or III, if appropriate, by application of the packing group criteria provided in Part 2 corresponding to the nature of the predominant subsidiary hazard.
- b) Packages must be labelled with subsidiary hazard labels corresponding to each subsidiary hazard exhibited by the material in accordance with the relevant provisions of 5;3.2; corresponding placards must be affixed to cargo transport units in accordance with the relevant provisions of 5;3.6.
- c) For the purposes of documentation and package marking, the proper shipping name must be supplemented with the name of the constituents which most predominantly contribute to this subsidiary hazard(s) and which must be enclosed in parenthesis. However, where the constituent is listed by name in Table 3-1 and:
 - i) "forbidden" is shown in columns 10 and 11, the dangerous goods transport document must indicate Cargo Aircraft Only and the package must bear cargo aircraft only labels, except that the substance may be shipped on a passenger aircraft with the prior approval of the appropriate authority of the State of Origin and the State of the Operator under the conditions established by those authorities. A copy of the document of approval, showing the quantity limitations and the packaging requirements, must accompany the consignment; and
 - ii) "forbidden" is shown in columns 12 and 13, the substance is forbidden for transport by air except that the substance may be shipped on a cargo aircraft with the prior approval of the appropriate authority of the State of Origin and the State of the Operator under the conditions established by those authorities. A copy of the document of approval, showing the quantity limitations and the packaging requirements, must accompany the consignment.

Radioactive material with a subsidiary hazard of Division 4.2 in Packing Group I must be transported in Type B packages. These may be transported on passenger or cargo aircraft.

UN Model Regulations, Chapter 3.3, SP 172 (d) (see ST/SG/AC.10/46/Add.1)

d) The dangerous goods transport document must indicate the <u>subsidiary</u> class or division <u>of the</u> <u>subsidiary hazard</u> and, where assigned, the packing group as required by 5;4.1.4.1 d) and e).

For packing, see also 4;9.1.5.

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UN Model Regulations, Chapter 3.3, SP 301 (see ST/SG/AC.10/46/Add.1)

A107 (≈301) This entry only applies to <u>articles such as</u> machinery<u>or</u> apparatus<u>or devices</u> containing dangerous goods as a residue or as an integral element of the <u>machinery or apparatus_articles</u>. It must not be used for machinery or apparatus<u>articles</u> for which a proper shipping name already exists in Table 3-1.

Where the quantity of dangerous goods contained as an integral element in <u>machinery or apparatus articles</u> exceeds the limits permitted by Packing Instruction 962, and the dangerous goods meet the provisions of Special Provision 301 of the UN Model Regulations, the <u>machinery or apparatus articles</u> may be transported only with the prior approval of the appropriate authority of the State of Origin and the State of the Operator under the written conditions established by those authorities.

Note.— This special provision is assigned to UN 3363 — Dangerous goods in articles, Dangerous goods in machinery and Dangerous goods in apparatus. The same requirements of these Instructions apply to each of these articles.

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UN Model Regulations, Chapter 3.3, SP 327 (see ST/SG/AC.10/46/Add.1) and paragraph 3.1.2.5.1 d) of the DGP-WG/19 report.

A145 Waste aerosols, waste gas cartridges and waste receptacles, small, containing gas are forbidden from air transport. Waste gas cartridges and waste receptacles, small, containing gas that were filled with gases of Division 2.2 and have been pierced are not subject to these Instructions.

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UN Model Regulations, Chapter 3.3, SP 376 (see ST/SG/AC.10/46/Add.1), DGP-WG/18 (see paragraph 3.3.6.3 of the DGP-WG/18 report) and DGP-WG/19 (see paragraph 3.1.2.5 e) of the DGP-WG/19 report)

⁴ [A154 <u>376</u> Lithium batteries, identified by the manufacturer as being defective for safety reasons, or that have been damaged, that have the potential of producing a dangerous evolution of heat, fire or short circuit are forbidden for transport (e.g. those being returned to the manufacturer for safety reasons or cells or batteries that cannot be diagnosed as damaged or defective prior to transport).

Lithium ion cells or batteries and lithium metal cells or batteries identified as being damaged or defective such that they do not conform to the type tested according to the applicable provisions of the *Manual ot Tests and Criteria* are forbidden for transport. For the purposes of this special provision, these may include, but are not limited to:

- a) cells or batteries identified as being defective for safety reasons;
- b) cells or batteries that have leaked or vented;
- c) cells or batteries that cannot be diagnosed prior to transport; or
- d) cells or batteries that have sustained physical or mechanical damage.

In assessing a cell or battery as damaged or defective, an assessment or evaluation must be performed based on safety criteria from the cell, battery or product manufacturer or by a technical expert with knowledge of the cell's or battery's safety features. An assessment or evaluation may include, but is not limited to, the following criteria:

- a) acute hazard, such as gas, fire, or electrolyte leaking;
- b) the use or misuse of the cell or battery;
- c) signs of physical damage, such as deformation to cell or battery casing, or colours on the casing;
- d) external and internal short circuit protection, such as voltage or isolation measures;
- e) the condition of the cell or battery safety features; or
- f) damage to any internal safety components, such as the battery management system.

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UN Model Regulations, Chapter 3.3, SP 356 (d) (see ST/SG/AC.10/46/Add.1)

A176 (356) Metal hydride storage systems installed in vehicles, vessels, <u>machinery, engines</u> or aircraft or in completed components or intended to be installed in vehicles, vessels, <u>machinery, engines</u> or aircraft must be approved by the appropriate national authority before acceptance for transport. The dangerous goods transport document must include an indication that the package was approved by the appropriate national authority approval must accompany each consignment.

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UN Model Regulations, Chapter 3.3, SP 360 (see ST/SG/AC.10/46/Add.1)

A185 (360) Vehicles only powered by lithium metal batteries or lithium ion batteries must be <u>consigned under assigned</u> <u>to</u> the entry UN 3171 Battery-powered vehicle.

Lithium batteries installed in cargo transport units, designed only to provide power external to the transport unit must be assigned to entry UN 3536 Lithium batteries installed in cargo transport unit.

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DGP-WG/19 (see paragraph 3.1.2.5.1 i) of the DGP-WG/19 report):

A206 (384) The hazard label must conform to the model shown in Figure 5-26. Figure 5-25 may continue to be used until 31 December 2018.

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DGP-WG/19-WP/22 (see paragraph 3.1.2.12 of the DGP-WG/19 report):

- A213 (387) Lithium batteries in conformity with 2;9.3 f) containing both primary lithium metal cells and rechargeable lithium ion cells must be assigned to UN Nos. 3090 or 3091 as appropriate. When such batteries are transported in accordance with Section <u>IB or</u> II of Packing Instruction 968, <u>or in accordance with Section II of Packing Instruction</u> 969 or 970, the total lithium content of all lithium metal cells contained in the battery must not exceed 1.5 g, and the total capacity of all lithium ion cells contained in the battery must not exceed 10 Wh.
- A214 (388) UN No. 3166 entries apply to vehicles powered by flammable liquid or flammable gas internal combustion engines or fuel cells.

Vehicles powered by a fuel cell engine must be assigned to UN 3166 Vehicle, fuel cell, flammable gas powered or UN 3166 Vehicle, fuel cell, flammable liquid powered, as appropriate. These entries include hybrid electric vehicles powered by both a fuel cell and an internal combustion engine with wet batteries, sodium batteries, lithium metal batteries or lithium ion batteries, transported with the battery(ies) installed.

Other vehicles which contain an internal combustion engine must be assigned to UN 3166 Vehicle, flammable gas powered or UN 3166 Vehicle, flammable liquid powered, as appropriate. These entries include hybrid electric vehicles powered by both an internal combustion engine and wet batteries, sodium batteries, lithium metal batteries or lithium ion batteries, transported with the battery(ies) installed.

If a vehicle is powered by a flammable liquid and a flammable gas internal combustion engine, it must be assigned to UN 3166 Vehicle, flammable gas powered.

Entry UN 3171 only applies to vehicles powered by wet batteries, sodium batteries, lithium metal batteries or lithium ion batteries and equipment powered by wet batteries or sodium batteries transported with these batteries installed.

For the purpose of this special provision, vehicles are self-propelled apparatus designed to carry one or more persons or goods. Examples of such vehicles are cars, motorcycles, scooters, three- and four-wheeled vehicles or motorcycles, trucks, locomotives, bicycles (pedal cycles with a motor) and other vehicles of this type (e.g. self-balancing vehicles or vehicles not equipped with at least one seating position), wheelchairs, lawn tractors, self-propelled farming and construction equipment, boats and aircraft. This includes vehicles transported in a packaging. In this case some parts of the vehicle may be detached from its frame to fit into the packaging.

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UN Model Regulations, Chapter 3.3, SP 388 (see ST/SG/AC.10/46/Add.1) and paragraph 3.1.2.5.1 g) of the DGP-WG/19 report:

Examples of equipment are lawnmowers, cleaning machines or model boats and model aircraft. Equipment powered by lithium metal batteries or lithium ion batteries must be assigned to UN 3091 Lithium metal batteries contained in equipment or UN 3091 Lithium metal batteries packed with equipment or UN 3481 Lithium ion batteries contained in equipment or UN 3481 Lithium ion batteries packed with equipment, as appropriate. Lithium ion batteries or lithium metal batteries installed in a cargo transport unit and designed only to provide power external to the cargo transport unit must be assigned to the entry UN 3536 Lithium batteries installed in cargo transport unit.

UN Model Regulations, Chapter 3.3, SP 274 (see ST/SG/AC.10/46/Add.1)

+ A215 (≈274) For UN 3077 and UN 3082, the technical name may be a name shown in bold characters in column 1 of Table 3-1, provided that this name does not include "n.o.s." or an "*". The name which most appropriately describes the substance or mixture must be used, e.g.:

> UN 3082, Environmentally hazardous substance, liquid, n.o.s. (Paint) UN 3082, Environmentally hazardous substance, liquid, n.o.s. (Perfumery products)

UN Model Regulations, Chapter 3.3, SP 393 (see ST/SG/AC.10/46/Add.1)

+ A216 (393) The nitrocellulose must meet the criteria of the Bergmann-Junk test or methyl violet paper test in the Manual of Tests and Criteria Appendix 10. Tests of type 3 (c) need not be applied.

UN Model Regulations, Chapter 3.3, SP 394 (see ST/SG/AC.10/46/Add.1)

+ A217 (394) The nitrocellulose must meet the criteria of the Bergmann-Junk test or methyl violet paper test in the Manual of Tests and Criteria Appendix 10.

UN Model Regulations, Chapter 3.3, SP 395 (see ST/SG/AC.10/46/Add.1)

<u>+ A218 (395) This entry must only be used for solid medical waste of Category A transported for disposal.</u>

DGP-WG/19-WP/20 (Revised) (see paragraph 3.1.2.10 of the DGP-WG/19 report):

<u>+ A219</u> 308 Stabilization of fish meal must be achieved to prevent spontaneous combustion by effective application of ethoxyquin, BHT (butylated hydroxytoluene) or tocopherols (also used in a blend with rosemary extract) at the time of production. The said application must occur within twelve months prior to shipment. Fish meal must contain at least 50 ppm (mg/kg) of ethoxyquin, 100 ppm (mg/kg) of BHT or 250 ppm (mg/kg) of tocopherol-based antioxidant at the time of consignment.

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